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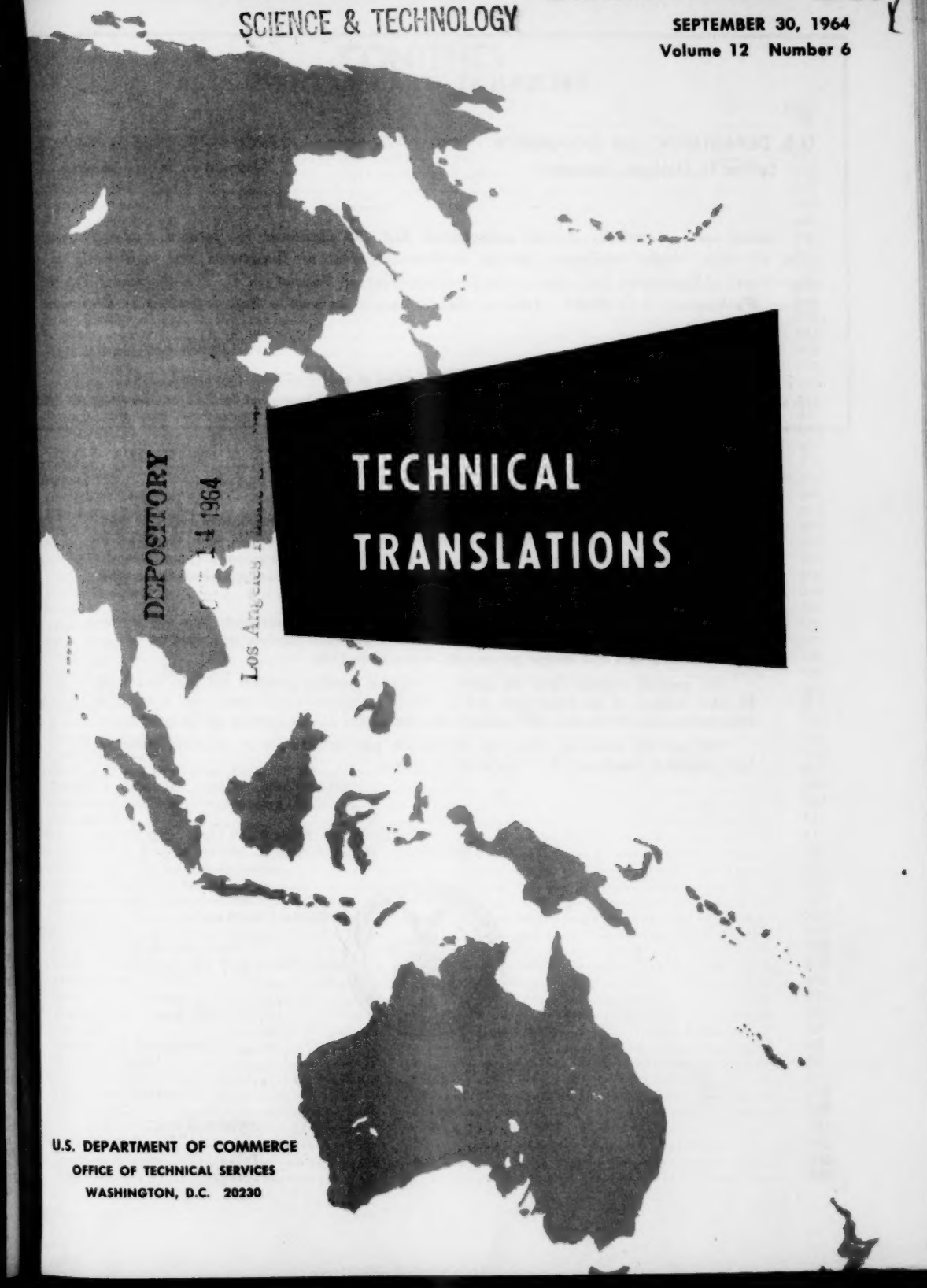
SCIENCE & TECHNOLOGY

SEPTEMBER 30, 1964
Volume 12 Number 6



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TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, *Secretary*

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, *Director*

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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Effective October 1, 1964, the fee for Special Literature Searches by the Office of Technical Services and the Science and Technology Division, Library of Congress, is increased from $8 per hour to $11 per hour of searching time. The increase is necessary to permit the agencies to recover the actual costs of these searches.

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The changes noted will result in more timely announcements, increased coverage, and improved economy in the treatment of material included within the journal.

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SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
2101 Constitution Ave., N. W.
Washington, D. C. 20000

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
1515 Massachusetts Ave., N. W.
Washington, D. C. 20005

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31 Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P.O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P.O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Office of Technical Services
Department of Commerce
Washington, D. C. 20230
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
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Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
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Fujisawa, Japan

SIAM
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SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

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TECHNICAL TRANSLATIONS

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BIBLIOGRAPHY

NLL TRANSLATIONS BULLETIN, 1964, VOL. 6, NO.5, P. 421-517. May 64, 1v.
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This bulletin includes books received from the USSR, lists of translations of articles and Russian books available on loan from N. L. L., articles available on loan or purchase, and 4 articles from 1963-64 issues of Russian journals and newspapers.

Separate entries have been prepared for the 4 articles.

NLL TRANSLATIONS BULLETIN, 1964, VOL. 6, NO. 6, P. 519-612. Jun 64, 1v.
Order from HMSO $0.77, $9.86/year

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Separate entries have been prepared for the 5 articles.

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AGRICULTURE

DISCUSSION OF PROBLEMS OF IRRIGATION AND LAND RECLAMATION AT THE FEBRUARY PLENUM OF THE CENTRAL COMMITTEE CPSU. 30 Jun 64, 23p
JPRS: 25309.
Order from OTS $0.75 TT-64-31589

Trans. of Gidrotekhnika i Melioratsiya (USSR) 1964 [v. 16] no. 4, p. 3-21.

JOURNAL FOR SCIENTIFIC AGRICULTURAL RESEARCH, 1963, VOL. 16, NO. 54. B. Filipovic, tr. 1964, 137p
PL-480 Agr.
Order from OTS $1.25 TT-63-11453/4

Trans. of Arhiv za Poljoprivredne Nauke [i Tehniku] (Yugoslavia) 1963, v. 16, no. 54, p. 3-158.

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Enikov, Kiril.
THE ORGANIZATION OF THE BULGARIAN ACADEMY OF AGRICULTURAL SCIENCES. 10 Jun 64, 6p
JPRS: 25010.
Order from OTS $0.50 TT-64-31446

Trans. of Selskostopanska Nauka (Bulgaria) 1964, v. 3, no. 1, p. 53-57.

Polyanchenko, V. P.
PROBLEMS ENCOUNTERED IN THE OVERALL MECHANIZATION OF MINERAL FERTILIZER SPREADERS [AND] IMPROVED FERTILIZER EQUIPMENT NEEDED. USSR Industrial Development: Soviet Tractors and Agricultural Machinery no. 126. 25 May 64, 11p
JPRS: 24747.
Order from OTS $0.50 TT-64-31324

Trans. of Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva (USSR) 1964 [v. 22] no. 2, p. 3-5; and Tekhnika v Sel'skom Khozyaistve (USSR) [1963, v. 23] no. 12 p. 41-43.

Shinyans'kii, L. A., Kazarnovs'kii, L. S., Karavai, I. Ya., and Solon'ko, V. N.
EXTRACTION BY THE EFFECT OF ULTRASONIC WAVES, REPT. II (Ekstraguvannya pid Vplivom Ul'trazvukovikh Kolivan'). May 64 [4p] 2refs RTS 2562.
Order from OTS, SLA, or ETC $1.10 TT-64-19124

Trans. of Farmatsevtychnyi Zhurnal (USSR) 1960 [v. 15] no. 5, p. 48-49.

Stoev, Kunyu, Koynov, Velin, and Lidzhi, Marko.
SOVIET-BLOC CONFERENCES ON AGRICULTURAL SCIENCES. 10 Jun 64, 21p JPRS: 25007.
Order from OTS $0.75 TT-64-31444

Trans. of Selskostopanska Nauka (Bulgaria) 1964, v. 3, no. 1, p. 77-86.

Verkhovskii, V. M.
MACHINES AND DEVICES FOR THE APPLICATION OF LIQUID FERTILIZERS (Mashiny i Prisposobleniya dlya Vneseniya v Pochvu Zhidkikh Udobrenii). 29 Jun 64, 7p (figs omitted) 13refs Trans. A-1456.
Order from OTS, SLA, or ETC $1.10 TT-64-19186

Trans. of Vestnik Sel'skokhozyaistvennoi Nauk (USSR) 1964, v. 9, no. 3, p. 110-114.

Animal Husbandry

Andreev, K. P.
ORGANIZATION AND METHODOLOGY OF DISINFESTATION ON FARMS (Organizatsiya i Metodika Dezinsektsii na Fermakh). 26 Jun 64, 6p Trans. V-1936.
Order from OTS, SLA, or ETC $1.10 TT-64-19188

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 94-97.

Kulikov, N. S. and Akramovskii, M. N.
ANTIBIOTIC TREATMENT OF EUROPEAN FOUL BROOD (Antibiotiki pri Evropeiskom Gnil'tse Pchel). [7p] (foreign text included) FASEB Ms no.: S 798-3.
Order from OTS, SLA, or ETC $1.10 TT-64-19255

Trans. of Veterinariya (USSR) 1963, v. 40, no. 4, p. 56-57.

Lazarev, P. S., Fedorov, A. I., Bukhtilov, F. N., Kamynin, I. N., and Kondakov, M. P.
MALIGNANT COURSE OF FOOT-AND-MOUTH DISEASE (Zlokachestvennoe Techenie Yashchura). 26 Jun 64, 5p Trans. V-1935.
Order from OTS, SLA, or ETC $1.10 TT-64-19187

Trans. of Veterinariya (USSR) 1964, v. 41, no. 5, p. 39-42.

Magidov, G., Chalyuk, E., and Karlsen, G.
FEEDING NORMS AND RATION STRUCTURE FOR HORSES (Normy Kormleniya i Struktura Ratsionov Leshadei). May 64 [13p] RTS 2549.
Order from OTS, SLA, or ETC $1.60 TT-64-19121

Trans. of Konevodstvo (USSR) 1958, v. 28, no. 1, p. 30-35.

Povarova, L. N.
PROPHYLAXIS OF PIROPLASMOSIS IN CATTLE (Profilaktika Piroplazmoza Krupnogo Rogatogo Skota). [7p] (foreign text included) FASEB Ms no.: S 71-4.
Order from OTS, SLA, or ETC $1.10 TT-64-19287

Trans. of Veterinariya (USSR) 1963, v. 40, no. 7, p. 20-21.

Plant Cultivation

Abdullaev, I. K.
USE OF TRIPLOID FORMS IN BREEDING HIGH YIELDING VARIETIES OF THE MULBERRY TREE (Ispol'zovanie Triploidii v Vyvedenii Vysokourozhainykh Form Kormovoi Shelkovitsy). 12 Jun 64, 7p Trans. A-1454.
Order from OTS, SLA, or ETC $1.10 TT-64-19127

Trans. of Agrobiologiya (USSR) 1962, no. 6[138] p. 861-865.

Averbukh, V. L. and Berlin, I. Z.
PROTECTION OF GRAIN PRODUCTS FROM RADIOACTIVE, CHEMICAL AND BACTERIAL SUBSTANCES DISCUSSED. 26 Jun 64, 14p JPRS: 25250.
Order from OTS $0.50 TT-64-31555

Trans. of mono. Kak Zashchitit' Khlebo Produkty ot Radioaktivnykh, Khimicheskikh Veshchestv i Bakterial'nykh Sredstv (How to Protect Grain Products from Radioactive, Chemical and Bacterial Substances) Moscow, 1963, p. 26-40.

Badalyan, V. S. and Atabekyan, E. A..
PRESOWING TREATMENT OF TOMATO SEEDS WITH THE PURPOSE OF INCREASING THEIR DROUGHT RESISTANCE AND YIELDING CAPACITY (Predposevnaya Obrabotka Semyan Tomatov s Tsel'yu Povysheniya Zasukhoustoichivosti i Urozhainosti). 1964, 3p PL-480 Agr.
Order from OTS $0.50] TT-63-11036

Trans. of Akademiya Nauk Armyanskoi SSR, Erevan. Izvestiya. Biologicheskie Nauki, 1958 [v. 11] no. 5, p. 97-99.

Belik, V. F.
THE DEVELOPMENT OF TOMATOES AND THE CONCENTRATION OF CELL SAP IN THEIR LEAVES AT DIFFERENT SOIL MOISTURE CONTENTS
M. Linnard, tr. [5p] (figs omitted) 7refs [DSIR] NLL M. 5444.
Order from OTS, SLA, or ETC $1.10 TT-64-19134

Trans. of Botan[icheskii] Zh[urnal] (USSR) 1960 [v. 45] no. 7, p. 1063-1066.

Fedchenko, M. A.
WET DISINFECTION OF SEEDS (Protravlivanie Semyan s Uvlazhneniem). 26 Jun 64, 4p Trans. A-1457.
Order from OTS, SLA, or ETC $1.10 TT-64-19130

Trans. of Zashchita Rastenii ot Vreditelei i Boleznei (USSR) 1964, v. 9, no. 3, p. 29-30.

Korablev, N.
AGRICULTURAL PHYSICS AND YIELD. May 64, 6p.
Order from HMSO $0.77 in NLL Translations Bulletin, 1964, v. 6, no. 5, p. 458-463.

Trans. of Nauchno-Tekhnicheski Obshchestva SSSR, 1963, v. 5, no. 11, p. 60-61.

Pogosyan, S. A.
HETEROSIS AND ITS UTILIZATION IN GRAPE BREEDING (Geterozis i Ego Ispol'zovanie v Selektsii Vinograda). 25 Jun 64, 10p Trans. A-1458.
Order from OTS, SLA, or ETC $1.10 TT-64-19128

Trans. of Vinodelie i Vinogradarstvo SSSR, 1963, v. 23, no. 2, p. 20-27.

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Vol XVIII, No 12, 1963

33 [Following is a complete translation of the Russian-language medical journal Vestnik Akademii Meditsinskikh Nauk SSSR (Herald of the Academy of Medical Sciences USSR), Vol XVIII, No 12, Moscow, 1963, pages 3-97.]

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CHEMICAL WARFARE AGENTS

Effect on the Organism - - First Aid

/Following is a translation of a booklet by Dr. med. Werner Konig in the German-language, published by the Deutscher Militarverlag (German Military Publishing House), Berlin, 1964./

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MEDICAL RADIOLOGY

(MEDITSINSKAYA RADIOLOGIYA)

1964, VOL. 9, NO. 2

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STUDIES IN MEDICAL RADIOLOGY

[Following is a translation of selected articles from the Russian-language journal Meditsinskaya Radiologiya (Medical Radiology), Vol IX, No 2, Moscow, February 1964, pages 22-28, 64-71, 75-80, 80-84, 94-99, and 100-103.]

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1963, VOL. 6, NO. 4

- USSR -

Following is a complete translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Priborostroyeniye, (News of Higher Educational Institutions: Instrument Building) Vol VI, No 4, 1963, pages 3-175.

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JPRS: 24,633

NEWS OF HIGHER EDUCATIONAL INSTITUTIONS: RADIOPHYSICS

1963, VOL. 6, NO. 6

Izvestiya VUZov: RADIOPHYSICS

- USSR -

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Radiofizika (News of Higher Educational Institutions: Radiophysics), Vol VI, No 6, November-December 1963, Gor'kiy, pages 1087-1283.

(Note: Illustrations and author's English summary are given at the end of each article. Original source page numbers are given in the left-hand margin of translation.)

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PRE-SCHOOL EDUCATION METHODS IN THE SOVIET UNION

/Following is a translation of several articles by various authors in the Russian-language periodical Doshkol'noye Vospitaniye (Pre-School Education), Vol 36, No 7, Moscow, July 1963. Additional bibliographic information accompanies each article./

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PROBLEMS OF COSMOGONY

(VOPROSY KOSMOGONII)
1958, VOL. 6
- USSR -

Following is the complete translation of a Russian-language collection of articles entitled Voprosy kosmogonii (Problems of Cosmogony), Volume VI, published by the Academy of Sciences USSR, Moscow, 1958, pages 1-368, and signed to the press on 19 July 1958. The names of the authors accompany each section or individual article.

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PROBLEMS OF PHILOSOPHY
(Voprosy Filosofii)

1964, VOL. 18, NO. 2

CURRENT PHILOSOPHICAL PROBLEMS

- USSR -

/Following are translations of four articles and a book review from the Russian-language periodical Voprosy filosofii (Problems of Philosophy), No 2, signed to the press 19 February 1964, Moscow. Complete bibliographic information accompanies each article./

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QUESTIONS OF ICHTHYOLOGY

(VOPROSY IKHTIOLOGII)

1964, NO. 1(30)

JPRS: 24,431

BREEDING, POPULATION DYNAMICS, AND HEALTH OF FISH
-USSR-

[Following is the translation of six articles by various authors from the Russian-language periodical Voprosy Ikhtiologii (Questions of Ichthyology), Vol 4, No 1(30), Moscow, 1964. Further bibliographical information accompanies each article.]

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RESEARCH ON HIGH STRENGTH ALLOYS AND WHISKER CRYSTALS

Moscow, 1963

THERMOMECHANICAL TREATMENT AND STRENGTHENING OF ALLOYS

- USSR -

Following is a translation of three articles from the Russian-language book Issledovaniya po vysykoprochnym splavam i nitevidnym kristallam (Research on High Strength Alloys and Whisker Crystals), Moscow, 1963, published by the USSR Academy of Sciences. Complete bibliographic information accompanies each article.

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PROGRAMMED INSTRUCTION AND CYBERNETIC TEACHING MACHINES

(Programmirovannoe Obuchenie i Kiberneticheskie Obuchayushchie Mashiny)

Moscow, 1963.

[Following is the translation of the collection of articles entitled Programmirovannoye obucheniye i kiberneticheskiye obuchayushchiye mashiny, edited by A. I. Shestakov, "Sovetskoye Radio" Publishing House, Moscow, 1963, 247 pages.]

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Quantitative Characteristics of Texts for Foreign Language Reading, by V. A. Kondrat'eva. 166

The Method of Compiling Programs for Teaching Machines, by A. I. Dyudin ... 194

This collection contains articles written by Soviet authors working in the area of developing a new and more effective "programmed" teaching method and creating cybernetic teaching machines.

The articles give the essence of programmed teaching methods, the logical structure of courses and the teaching algorithm of courses, a classification of the simple teaching machines is given, and a description of a number of types of such machines, the methods for operating them, examples of program compiling and certain results in programmed instruction.

The collection is designed for radio engineers and teachers in the higher and middle-level teaching institutions.

[Translator's Note: The Russian word "otsenka" is translated throughout as "evaluation" although it obviously refers to the grades given to students' work.]

TRANSACTIONS OF THE LENINGRAD POLYTECHNIC INSTITUTE

(POLITEKHNICHESKII INSTITUT, LENINGRAD. TRUDY)

1963, NO. 224

CASTING PROPERTIES OF HEAT-RESISTING ALLOYS

- USSR -

/Following is the translation of three articles from the Russian-language publication Liteynyye Svoystva Zharoprochnykh Splavov (English version above) (Transactions of the Leningrad Polytechnic Institute imeni M.I. Kalinin), No 224, Moscow, Metallurgizdat, 1963. Complete bibliographic information accompanies each article./

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UKRAINIAN JOURNAL OF CHEMISTRY
(Ukrainskii Khimicheskii Zhurnal)

1962, VOL. 28, NO. 1-2.

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(Archivum Immunologiae et Therapiae Experimentalis)

1964, VOL. 12, NO. 2

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